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GOOD-ARK

RL201G THRU RL207G

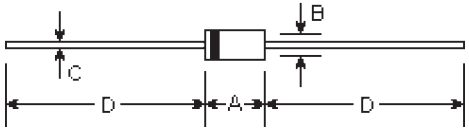
GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 50 to 1000 Volts
Forward Current - 2.0 Amperes

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0 utilizing Flame retardant epoxy molding compound
- 2.0 ampere operation at T_A=75℃ with no thermal runaway
- Glass passivated junction in DO-15 package

DO-15



Mechanical Data

- **Case:** Molded plastic, DO-15
- **Terminals:** Axial leads, solderable per MIL-STD-202, method 208
- **Polarity:** Color band denotes cathode
- **Mounting Position:** Any
- **Weight:** 0.014 ounce, 0.395 gram

DIMENSIONS					
DIM	inches		mm		Note
	Min.	Max.	Min.	Max.	
A	0.228	0.299	5.8	7.6	
B	0.102	0.142	2.6	3.6	ϕ
C	0.028	0.034	0.71	0.86	ϕ
D	1.000	-	25.40	-	

Maximum Ratings and Electrical Characteristics @25℃ unless otherwise specified

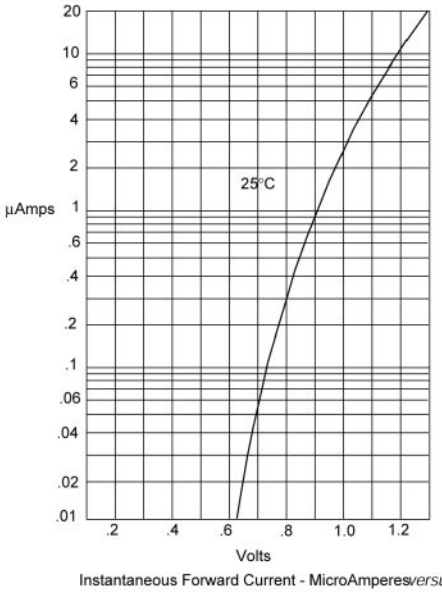
	Symbols	RL 201G	RL 202G	RL 203G	RL 204G	RL 205G	RL 206G	RL 207G	Units
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Average forward current T_A=75℃	$I_{(AV)}$	2.0							Amps
Peak forward surge current 8.3mS half sine-wave	I_{FSM}	60.0							Amps
Maximum instantaneous forward voltage I_{FM}=2.0A; T_A=25℃ (Note 1)	V_F	1.0							Volts
Maximum DC reverse current at rated DC blocking voltage T_A=25℃ / T_A=100℃	I_R	5.0 / 50.0							μA
Typical junction capacitance Measure at 1.0MHz, V_R=4.0V	C_J	20							pF
Typical thermal resistance	$R_{\theta JA}$	50							℃/W
Operating and storage temperature range	T_J, T_{STG}	-65 to +175							℃

Note:

(1) Pulse test: Pulse width 300uSec, Duty cycle 1%

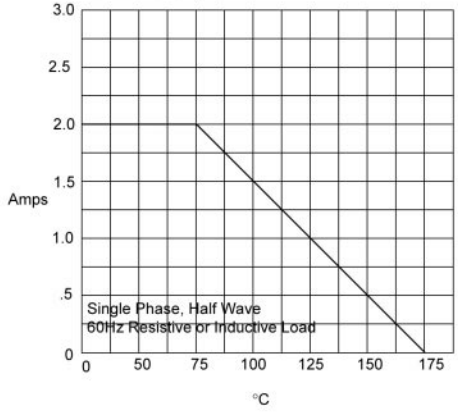
RATINGS AND CHARACTERISTIC CURVES

Figure 1
Typical Forward Characteristics



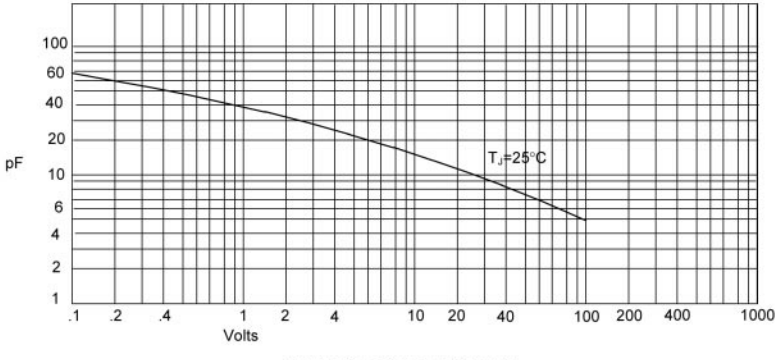
Instantaneous Forward Current - MicroAmperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



Average Forward Rectified Current - Amperes *versus*
Ambient Temperature -°C

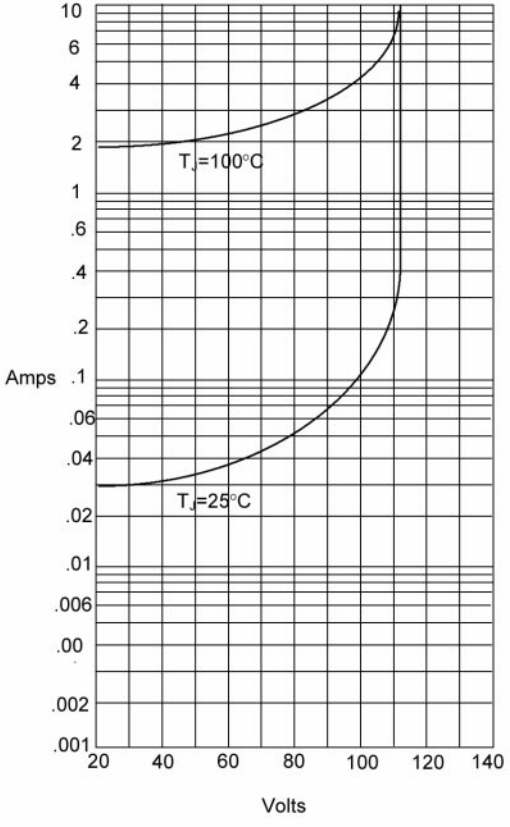
Figure 3
Junction Capacitance



Junction Capacitance - pF *versus*
Reverse Voltage - Volts

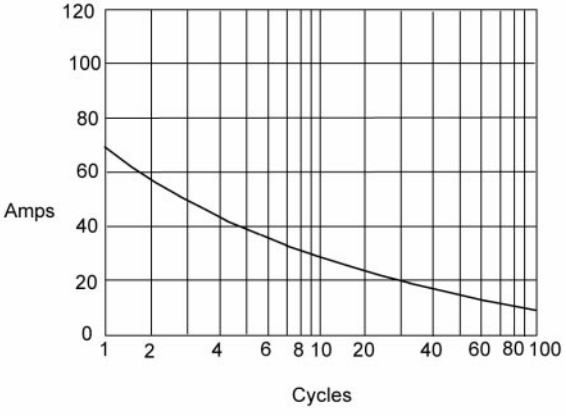
RATINGS AND CHARACTERISTIC CURVES

Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Current - Amps*versus*
Percent Of Rated Peak Reverse Voltage - Volts

Figure 5
Peak Forward Surge Current



Peak Forward Surge Current - Amperes*versus*
Number Of Cycles At 60Hz - Cycles